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Patent and Trademark Office  
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Washington, D.C. 20231

OCTOBER 06, 1999

PTAS

TOWNSEND AND TOWNSEND AND CREW LLP  
JOE LIEBESCHUETZ  
TWO EMBARCADERO CENTER, 8TH FLOOR  
SAN FRANCISCO, CALIFORNIA 94111-3834



\*101111996A\*

21906 U.S. PTO  
10/609143  
06/27/03

UNITED STATES PATENT AND TRADEMARK OFFICE  
NOTICE OF RECORDATION OF ASSIGNMENT DOCUMENT

THE ENCLOSED DOCUMENT HAS BEEN RECORDED BY THE ASSIGNMENT DIVISION OF THE U.S. PATENT AND TRADEMARK OFFICE. A COMPLETE MICROFILM COPY IS AVAILABLE AT THE ASSIGNMENT SEARCH ROOM ON THE REEL AND FRAME NUMBER REFERENCED BELOW.

PLEASE REVIEW ALL INFORMATION CONTAINED ON THIS NOTICE. THE INFORMATION CONTAINED ON THIS RECORDATION NOTICE REFLECTS THE DATA PRESENT IN THE PATENT AND TRADEMARK ASSIGNMENT SYSTEM. IF YOU SHOULD FIND ANY ERRORS OR HAVE QUESTIONS CONCERNING THIS NOTICE, YOU MAY CONTACT THE EMPLOYEE WHOSE NAME APPEARS ON THIS NOTICE AT 703-308-9723. PLEASE SEND REQUEST FOR CORRECTION TO: U.S. PATENT AND TRADEMARK OFFICE, ASSIGNMENT DIVISION, BOX ASSIGNMENTS, CG-4, 1213 JEFFERSON DAVIS HWY, SUITE 320, WASHINGTON, D.C. 20231.

RECORDATION DATE: 08/05/1999

REEL/FRAME: 010143/0508

NUMBER OF PAGES: 3

BRIEF: ASSIGNMENT OF ASSIGNOR'S INTEREST (SEE DOCUMENT FOR DETAILS).

ASSIGNOR:

SINHA, SUKANTO

DOC DATE: 06/14/1999

ASSIGNEE:

ELAN PHARMACEUTICALS  
800 F GATEWAY BLVD.  
SOUTH SAN FRANCISCO, CALIFORNIA

94080

ASSIGNEE:

ELI LILLY AND COMPANY  
LILLY CORPORATE CENTER  
INDIANAPOLIS, INDIANA 46285

SERIAL NUMBER: 09209647

FILING DATE: 12/10/1998

PATENT NUMBER:

ISSUE DATE:

RECEIVED

9 OCT 22 AM 9:55

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TOWNSEND & TOWNSEND  
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ANTIONE ROYALL, EXAMINER  
ASSIGNMENT DIVISION  
OFFICE OF PUBLIC RECORDS

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08-09-1999

Pocket No. 15270-00042305

FORM PTO-1595  
(Rev. 6-93)

To the Honorable Asst. Commissioner for Patents

U.S. Department of Commerce  
Patent and Trademark Office

101111996

## 1. Name of conveying party(ies):

Sukanto Sinha

AUG 5

Additional name(s) of conveying parties attached?

 Yes  No

## 3. Nature of conveyance:

Assignment       Merger  
 Security Agreement       Change of Name  
 Other:

Execution Date: June 14, 1999

## 2. Name and address of receiving party(ies):

Name: Elan Pharmaceuticals  
 Address: 800 F Gateway Blvd.  
 City: South San Francisco State: CA ZIP: 94080

Name: Eli Lilly and Company  
 Address: Lilly Corporate Center  
 City: Indianapolis State: IN ZIP: 46285

Additional names and addresses attached?  
 Yes  No

## 4. Application Number(s) or Patent Numbers.

If this document is being filed together with a new application, the execution date of the application is:

A. Patent Application No(s): 09/209,647

B. Patent No(s):

Additional numbers attached?

 Yes No

## 5. Name and address of party to whom correspondence concerning document should be mailed:

Name: Joe Liebeschuetz  
 TOWNSEND AND TOWNSEND AND CREW LLP  
 Two Embarcadero Center, 8<sup>th</sup> Floor  
 San Francisco, California 94111-3834  
 (415) 576-0200

## 6. Total number of applications and patents involved 1

7. Total fee (37 CFR 3.41): \$40.00

Enclosed  Charge Fees to Deposit Account  
 Charge any additional fees associated with this paper or during the pendency of this application, or credit any overpayment, to deposit account.

8. Deposit account number: 20-1430

DO NOT USE THIS SPACE

## 9. Statement and signature.

To the best of my knowledge and belief, the foregoing is true and correct and any attached copy is a true copy of the original document.

Joe Liebeschuetz

Name of Person Signing

Signature

Date

Atty Reg. No. 37.505

Total number of pages including cover sheet, attachments and document 3

10. Change Correspondence Address to that of Part 5?  Yes  No

OMB N 0651-0011 (exp. 4/94)

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Mail documents to be recorded with required cover no:

Asst. Commissioner for Patents  
 Box: Assignments  
 Washington, D.C. 20231

06/1999 MTHAI1 00000250 201430 09209647

1 FC:581 40.00 CH

PA.3011518 v1

ASSIGNMENT

WHEREAS I, the below named inventor, hereinafter referred to as Assignor, have made an invention entitled TRANSGENIC ANIMALS HARBORING APP ALLELE HAVING SWEDISH MUTATION for which an application for United States Letters Patent was executed on December 10, 1998 (Serial No. 09/209,647); and

WHEREAS, ELAN PHARMACEUTICALS, INC. ("ELAN"), a corporation of Delaware whose principal place of business is 800 F Gateway Blvd., South San Francisco, California, and ELI LILLY AND COMPANY ("Lilly"), a corporation of Indiana whose principal place of business is Lilly Corporate Center, Indianapolis, Indiana (hereinafter referred to as the "Assignees"), are desirous of acquiring the entire right, title, and interest in and to this invention in all countries throughout the world, and in and to the application for United States Letters Patent on this invention and the Letters Patent issued upon this application;

NOW THEREFORE, be it known that for and in consideration of the sum of One Dollar (\$1.00) in hand paid and other good and valuable consideration the receipt of which from assignees is hereby acknowledged, I, as assignor, have sold, assigned, transferred, and set over, and do hereby sell, assign, transfer, and set over unto the assignees, their lawful successors and assigns, my entire right, title, and interest in and to this invention and this application, and all divisions, and continuations thereof, and all Letters Patent of the United States which have been or may be granted thereon, and all reissues thereof, and all rights to claim priority on the basis of such application, and all applications for Letters Patent which may hereafter be filed for this invention in any foreign country and all Letters Patent which may be granted on this invention in any foreign country, and all extensions, renewals, and reissues thereof; and I hereby authorize and request the Commissioner of Patents and Trademarks of the United States and any official of any foreign country whose duty it is to issue patents on applications as described above, to issue all Letters Patent for this invention to assignees, their successors and assigns, in accordance with the terms of this Assignment;

AND, I HEREBY covenant that I have the full right to convey the interest assigned by this Assignment, and I have not executed and will not execute any agreement in conflict with this Assignment;

AND, I HEREBY further covenant and agree that I will, without further consideration, communicate with assignees, their successors and assigns, any facts known to me respecting this invention, and testify in any legal proceeding, sign all lawful papers when called upon to do so, execute and deliver any and all papers that may be necessary or desirable to perfect the title to this invention in said assignees, their successors or assigns, execute all divisional, continuation, and reissue applications, make all rightful oaths and generally do everything possible to aid assignee, its successors and assigns, to obtain and enforce proper patent protection for this invention in the United States and any foreign country, it being understood that any expense incident to the execution of such papers shall be borne by the assignees, their successors and assigns.

IN TESTIMONY WHEREOF, I have hereunto set my hand.

County of: SAN MATEO

Sukanto Sinha

Full Name Of Assignor

State of: CALIFORNIA

808 Junipero Serra Blvd.

Street Address

San Francisco, CA 94127

City and State/Country

Subscribed and sworn to before me this

14 Day of JUNE, 1999

Franklin W. Dyer  
FRANKLIN W. DYER, Notary Public



Sukanto Sinha 6/14/99  
Assignor's Signature/Date

PA 194474 v1

## DECLARATION AND POWER OF ATTORNEY

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **TRANSGENIC ANIMALS HARBORING APP ALLELE HAVING SWEDISH MUTATION** the specification of which \_\_\_\_\_ is attached hereto or  was filed on NOVEMBER 1, 1993 as Application Serial No. 08/148,211 and was amended on \_\_\_\_\_ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to the examination of this application in accordance with Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign applications(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

## Prior Foreign Application(s)

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
N/A			Yes _____ No _____
			Yes _____ N _____

I claim the benefit under Title 35, United States Code, Section 120 of any United States application(s) listed below, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States application in the manner provided by the first paragraph of Title 35, United States Code, Section 112, I acknowledge the duty to disclose material information as defined in Title 37, Code of Federal Regulations, Section 1.56 which occurred between the filing date of the prior application and the national or PCT international filing date of this application:

Application Serial No.	Date of Filing	Status
08/143,697	10/27/93	____ Patented <input checked="" type="checkbox"/> Pending _____ Abandoned
		____ Patented _____ Pending _____ Abandoned

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

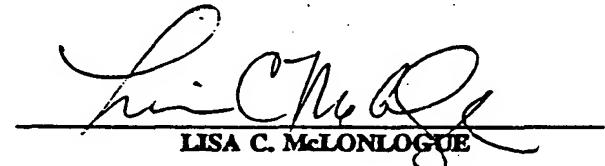
WILLIAM M. SMITH, Reg. No. 30,223  
 TRACY J. DUNN, Reg. No. 34,587  
 JAMES M. HESLIN, Reg. No. 29,541  
 LISABETH FEIX MURPHY, Reg. No. 31,547  
 JEAN M. DUVALL, Reg. No. 32,731

Send Correspondence to: <b>WILLIAM M. SMITH</b> TOWNSEND and TOWNSEND KHOURIE and CREW Steuart Street Tower One Market Plaza, 20th Floor San Francisco, CA 94105	Direct Telephone Calls to: (Name, Reg. No., Telephone No.)  Name: <b>WILLIAM M. SMITH</b> Reg. No. 30,223 Telephone: 415-326-2400
---	--

Full Name of Inventor 1	Last Name <b>McLONLOGUE</b>	First Name <b>LISA</b>	Middle Name or Initial C.	
Residence & Citizenship	City <b>SAN FRANCISCO</b>	State/Foreign Country <b>CALIFORNIA</b>	Country of Citizenship <b>USA</b>	
Post Office Address	Post Office Address <b>283 JUANITA WAY</b>	City <b>SAN FRANCISCO</b>	State/Country <b>CALIFORNIA</b>	Zip Code <b>94127</b>
Full Name of Inventor 2	Last Name <b>ZHAO</b>	First Name <b>JUN</b>	Middle Name or Initial	
Residence & Citizenship	City <b>SAN DIEGO</b>	State/Foreign Country <b>CALIFORNIA</b>	Country of Citizenship <b>PEOPLE'S REPUBLIC OF CHINA</b>	
Post Office Address	Post Office Address <b>8949 LOMBARD PLACE, APT. 411</b>	City <b>SAN DIEGO</b>	State/Country <b>CALIFORNIA</b>	Zip Code <b>92122</b>

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Dated: July 20, 1994



LISA C. McLONLOGUE

Dated: Aug. 10, 1994



JUN ZHAO

**SUBSTITUTE DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **TRANSGENIC ANIMALS HARBORING APP ALLELI HAVING SWEDISH MUTATION** the specification of which was filed on NOVEMBER 1, 1993 as Application Serial No. 08/148,211

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**Prior Foreign Application(s)**

Country	Application No.	Date of Filing	Priority Claimed Under 35 USC 119
N/A			Yes <input type="checkbox"/> No <input type="checkbox"/>
			Yes <input type="checkbox"/> No <input type="checkbox"/>

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Application Serial No.	Date of Filing	Status
08/143,697	10/27/93	<input type="checkbox"/> Patented <input checked="" type="checkbox"/> Pending <input type="checkbox"/> Abandoned
		<input type="checkbox"/> Patented <input type="checkbox"/> Pending <input type="checkbox"/> Abandoned

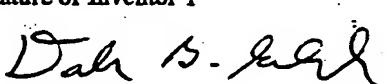
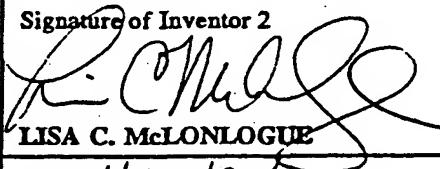
**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

WILLIAM M. SMITH, Reg. No. 30,223  
 TRACY J. DUNN, Reg. No. 34,587  
 JAMES M. HESLIN, Reg. No. 29,541  
 LISABETH FEIX MURPHY, Reg. No. 31,547  
 JEAN M. DUVALL, Reg. No. 32,731  
 JOE LIEBESCHUETZ, Reg. No. 37,505

Send Correspondence to: <b>WILLIAM M. SMITH</b> TOWNSEND and TOWNSEND KHOURIE and CREW Steuart Street Tower One Market Plaza, 20th Floor San Francisco, CA 94105	Direct Telephone Calls to: (Name, Reg. No., Telephone No.)  Name: <b>WILLIAM M. SMITH</b> Reg. No. 30,223 Telephone: 415-326-2400
---	--

Full Name of Inventor 1	Last Name <b>SCHENK</b>	First Name <b>DALE</b>	Middle Name or Initial <b>B.</b>	
Residence & Citizenship	City <b>PACIFICA</b>	State/Foreign Country <b>CALIFORNIA</b>	Country of Citizenship <b>United States</b>	
Post Office Address	Post Office Address <b>605 Sharp Park Road</b>	City <b>PACIFICA</b>	State/Country <b>CALIFORNIA</b>	Zip Code <b>94044</b>
Full Name of Inventor 2	Last Name <b>McLONLOGUE</b>	First Name <b>LISA</b>	Middle Name or Initial <b>C.</b>	
Residence & Citizenship	City <b>SAN FRANCISCO</b>	State/Foreign Country <b>CALIFORNIA</b>	Country of Citizenship <b>USA</b>	
Post Office Address	Post Office Address <b>283 JUANITA WAY</b>	City <b>SAN FRANCISCO</b>	State/Country <b>CALIFORNIA</b>	Zip Code <b>94127</b>
Full Name of Inventor 3	Last Name <b>ZHAO</b>	First Name <b>JUN</b>	Middle Name or Initial	
Residence & Citizenship	City <b>SAN DIEGO</b>	State/Foreign Country <b>CALIFORNIA</b>	Country of Citizenship <b>PEOPLE'S REPUBLIC OF CHINA</b>	
Post Office Address	Post Office Address <b>8949 LOMBARD PLACE, APT. 411</b>	City <b>SAN DIEGO</b>	State/Country <b>CALIFORNIA</b>	Zip Code <b>92122</b>

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Signature of Inventor 1	Signature of Inventor 2	Signature of Inventor 3
 <b>DALE B. SCHENK</b>	 <b>LISA C. McLONLOGUE</b>	 <b>JUN ZHAO</b>
Date <b>4/22/94</b>	Date <b>4/22/94</b>	Date <b>4/22/94</b>

**SUBSTITUTE DECLARATION AND POWER OF ATTORNEY**

As a below named inventor, I declare that:

My residence, post office address and citizenship are as stated below next to my name; I believe I am the original, first and sole inventor (if only one name is listed below) or an original, first and joint inventor (if plural inventors are named below) of the subject matter which is claimed and for which a patent is sought on the invention entitled: **TRANSGENIC ANIMALS HARBORING APP ALLELE HAVING SWEDISH MUTATION** the specification of which \_\_\_\_\_ is attached hereto or X was filed on December 10, 1998 as Application No. 09/209,647 and was amended on \_\_\_\_\_ (if applicable).

I have reviewed and understand the contents of the above identified specification, including the claims, as amended by any amendment referred to above. I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, Section 1.56. I claim foreign priority benefits under Title 35, United States Code, Section 119 of any foreign application(s) for patent or inventor's certificate listed below and have also identified below any foreign application for patent or inventor's certificate having a filing date before that of the application on which priority is claimed.

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Attorney Docket	Application No.	Date of Filing	Status
15270-000420US	08/143,697	10/27/93	Issued as Pat. No. 5,604,102
15270-000421US	08/148,211	11/1/93	Issued as Pat. No. 5,612,486
15270-000422US	08/785,943	1/22/97	Issued as Pat. No. 5,850,003

**POWER OF ATTORNEY:** As a named inventor, I hereby appoint the following attorney(s) and/or agent(s) to prosecute this application and transact all business in the Patent and Trademark Office connected therewith.

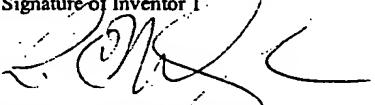
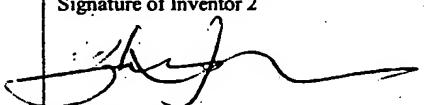
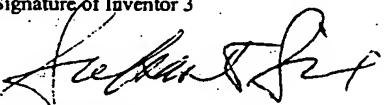
William M. Smith, Reg. No. 30,223  
Joe Liebeschuetz, Reg. No. 37,505  
Randolph T. Apple, Reg. No. 36,429  
Lisabeth Feix Murphy, Reg. No. 31,547  
Jean M. Duvall, Reg. No. 32,731

Send Correspondence to: <b>Joe Liebeschuetz TOWNSEND and TOWNSEND and CREW LLP Two Embarcadero Center, 8<sup>th</sup> Floor San Francisco, California 94111-3834</b>	Direct Telephone Calls to: (Name, Reg. No., Telephone No.) <b>Name: Joe Liebeschuetz Reg. No.: 37,505 Telephone: 650-326-2400</b>
---	---

Full Name of Inventor 1:	Last Name: <b>McConlogue</b>	First Name: <b>Lisa</b>	Middle Name or Initial: <b>C.</b>
Residence & Citizenship:	City: <b>San Francisco</b>	State/Foreign Country: <b>CA</b>	Country of Citizenship:
Post Office Address:	Post Office Address: <b>283 Juanita Way</b>	City: <b>San Francisco</b>	State/Country: <b>CA</b> Postal Code: <b>94127</b>

Full Name of Inventor 2:	Last Name: Zhao	First Name: Jun	Middle Name or Initial:
Residence & Citizenship:	City: La Jolla	State/Foreign Country: CA	Country of Citizenship:
Post Office Address:	Post Office Address: 5851 Desert View Dr.	City: La Jolla	State/Country: CA Postal Code: 92037
Full Name of Inventor 3:	Last Name: Sinha	First Name: Sukanto	Middle Name or Initial:
Residence & Citizenship:	City: San Francisco	State/Foreign Country: CA	Country of Citizenship:
Post Office Address:	Post Office Address: 808 Junipero Serra Blvd. San Francisco	City:	State/Country: CA Postal Code: 94127

I further declare that all statements made herein of my own knowledge are true and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

Signature of Inventor 1 	Signature of Inventor 2 	Signature of Inventor 3 
Lisa C. McConlogue	Jun Zhao	Sukanto Sinha
Date June 11, 1999	Date July 2, 1999	Date 6/14/99

PA 194590 v1